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1 [Understanding consistency maintenance in service discovery architectures during communication failure](#)



Christopher Dabrowski, Kevin Mills, Jesse Elder

July WOSP '02: Proceedings of the 3rd international workshop on Software and 2002 performance

Publisher: ACM

Full text available: [pdf\(161.78 KB\)](#)




Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
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Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 77, Citation Count: 2

Current trends suggest future software systems will comprise collections of components that combine and recombine dynamically in reaction to changing conditions. Service-discovery protocols, which enable software components to locate available software ...

2 Decentralized control of E'GV transportation systems

 Danny Weyns, Kurt Schelfthout, Tom Holvoet, Tom Lefever
July 2005 AAMAS '05: Proceedings of the fourth international joint conference on
Autonomous agents and multiagent systems
Publisher: ACM

Full text available:  [pdf\(590.66 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
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Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 74, Citation Count: 5

Egemin N. V. is a Belgian manufacturer of Automatic Guided Vehicles -named E'GVs- and control software for automating logistics services in warehouses and manufactories using E'GVs. In a joint R&D project, Egemin and the AgentWise research group are ...

Keyw ords: automatic guided vehicles, situated multiagent systems

3 Centaurus: an infrastructure for service management in ubiquitous computing environments

Lalana Kagal, Vladimir Korolev, Sasikanth Avancha, Anupam Joshi, Tim Finin, Yelena Yesha
November 2002 Wireless Networks, Volume 8 Issue 6
Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(553.67 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 45, Citation Count: 2

In the near future, we will see dramatic changes in computing and networking hardware. A large number of devices (e.g., phones, PDAs, even small household appliances) will become computationally enabled. Micro/nano sensors will be widely embedded in ...

Keyw ords: mobile computing, pervasive computing, service management, ubiquitous computing

4 [The transport layer: tutorial and survey](#)



Sami Iren, Paul D. Amer, Phillip T. Conrad

December 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 4

Publisher: ACM

Full text available: [pdf\(261.78 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 381, Citation Count: 2

Transport layer protocols provide for end-to-end communication between two or more hosts. This paper presents a tutorial on transport layer concepts and terminology, and a survey of transport layer services and protocols. The transport layer protocol ...

Keyw ords: TCP/IP networks, congestion control, flow control, transport protocol, transport service

5 [Some assembly required: building a digital government for the 21st century](#)

Sharon S. Dawes, Peter A. Bloniarz, Kristine L. Kelly, Patricia D. Fletcher

May dg.o '02: Proceedings of the 2002 annual national conference on Digital 2002 government research

Publisher: Digital Government Research Center

Full text available: [pdf\(889.22 KB\)](#)

Additional Information: [full citation](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 199, Citation Count: 0

6 [Some assembly required: building a digital government for the 21st century](#)

Sharon S. Dawes, Peter A. Bloniarz, Kristine L. Kelly, Patricia D. Fletcher

May dg.o '00: Proceedings of the 2000 annual national conference on Digital 2000 government research

Publisher: Digital Government Research Center

Full text available: [pdf\(889.21 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 96, Citation Count: 1

This material is based upon work supported in part by the National Science Foundation under Grant No. 99-181. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect ...

7 [Emstar: A software environment for developing and deploying heterogeneous](#)



[sensor-actuator networks](#)

Lewis Girod, Nithya Ramanathan, Jeremy Elson, Thanos Stathopoulos, Martin Lukac, Deborah Estrin

August 2007 ACM Transactions on Sensor Networks (TOSN), Volume 3 Issue 3

Publisher: ACM

Full text available: [pdf\(994.88 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 330, Citation Count: 0

Recent work in wireless embedded networked systems has followed *heterogeneous* designs, incorporating a mixture of elements from extremely constrained 8- or 16-bit "Motes" to less resource-constrained 32-bit embedded "Microservers." ...

Keywords: Emstar, Real code simulation, Sensor networks, TinyOS

8 [Dynamic data fusion for future sensor networks](#)



Umakishore Ramachandran, Rajnish Kumar, Matthew Wolenetz, Brian Cooper, Bikash Agarwalla, Junsuk Shin, Phillip Hutto, Arnab Paul

August 2006 ACM Transactions on Sensor Networks (TOSN), Volume 2 Issue 3

Publisher: ACM

Full text available: [pdf\(2.44 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 437, Citation Count: 0

DFuse is an architectural framework for dynamic application-specified data fusion in sensor networks. It bridges an important abstraction gap for developing advanced fusion applications that takes into account the dynamic nature of applications and sensor ...

Keywords: Sensor network, data fusion, energy awareness, in-network aggregation, middleware, platform, role assignment

9 [A simple mechanism for capturing and replaying wireless channels](#)



Glenn Judd, Peter Steenkiste

August E-WIND '05: Proceedings of the 2005 ACM SIGCOMM workshop on
2005 Experimental approaches to wireless network design and analysis

Publisher: ACM

Full text available: pdf(6.06

[MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index](#)

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Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 446, Citation Count: 1

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility ...

Keywords: channel capture, emulation, wireless

10 [A comparative analysis of virtual versus physical process-migration strategies for distributed modeling and simulation of mobile computing networks](#)

Kwun Han, Sumit Ghosh

August Wireless Networks, Volume 4 Issue 5
1998

Publisher: Kluwer Academic Publishers

Full text available: pdf(252.81

[KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 73, Citation Count: 1

Improvements in processor power and diminishing processor costs coupled with the potential of asynchronous, distributed algorithms promise to expand the frontier of mobile computing networks. In general, a mobile computing network consists of semi-autonomous ...

11 [Negotiation-based protocols for disseminating information in wireless sensor networks](#)

Joanna Kulik, Wendi Heinzelman, Hari Balakrishnan

March Wireless Networks, Volume 8 Issue 2/3
2002

Publisher: Kluwer Academic Publishers

Full text available: pdf(357.49

[KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

[index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 190, Citation Count: 22

In this paper, we present a family of adaptive protocols, called SPIN (Sensor Protocols for Information via Negotiation), that efficiently disseminate information among sensors in an energy-constrained wireless sensor network. Nodes running a SPIN communication ...

Keywords: energy-efficient protocols, information dissemination, meta-data, negotiation-based protocols, wireless sensor networks

12 Mobile networking in the Internet



Charles E. Perkins

December 1998 Mobile Networks and Applications, Volume 3 Issue 4

Publisher: ACM

Full text available: [pdf\(166.90 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 41, Downloads (12 Months): 288, Citation Count: 8

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for ...

13 Improving energy efficiency of centrally controlled wireless data networks

John A. Stine, Gustavo De Veciana

November 2002 Wireless Networks, Volume 8 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(900.34 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 33, Citation Count: 4

Wireless network access protocols can assist nodes to conserve energy by identifying when they can enter low energy states. The goal is to put all nodes not involved in a transmission into the doze state. However, in doing so, one must tradeoff the energy ...

Keywords: 802.11 MAC, energy conserving protocol, point coordination function (PCF), power saving, wireless medium access control (MAC), wireless network

14 [A message ferrying approach for data delivery in sparse mobile ad hoc networks](#)



W. Zhao, M. Ammar, E. Zegura

May 2004 MobiHoc '04: Proceedings of the 5th ACM international symposium on Mobile ad hoc networking and computing

Publisher: ACM

Full text available: [pdf\(152.16 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

[index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 259, Citation Count: 42

Mobile Ad Hoc Networks (MANETs) provide rapidly deployable and self-configuring network capacity required in many critical applications, e.g., battlefields, disaster relief and wide area sensing. In this paper we study the problem of efficient data delivery ...

Keywords: mobile ad hoc networks, mobility-assisted data delivery, sparse networks

15 [A signaling architecture for wireless ATM access networks](#)

Nikos H. Loukas, Nikos I. Passas, Lazaros Merakos, Iakovos S. Venieris

March 2000 Wireless Networks, Volume 6 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(350.88 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 52, Citation Count: 1

A multiservice wireless Asynchronous Transfer Mode ∥ATM∥ access system is considered from a signaling protocol viewpoint. In an attempt to generalize and extend results and experiences obtained from the specification, design, and implementation ...

16 [MAC Layer admission control and priority re-allocation for handling QoS guarantees in non-cooperative wireless LANs](#)

Ming Li, B. Prabhakaran

December 2005 Mobile Networks and Applications, Volume 10 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(375.10 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

[index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 101, Citation Count: 1

Providing QoS guarantee with appropriate service differentiation in IEEE 802.11 wireless LANs is quite desirable. However, users may be selfish and thus rigorously try to maximize their performance by demanding high services even though the network has ...

Keywords: IEEE 802.11 wireless LAN, QoS, admission control, non-cooperative behavior, priority re-allocation

17 Tree multicast strategies in mobile, multishop wireless networks



Mario Gerla, Ching-Chuan Chiang, Lixia Zhang

October 1999 Mobile Networks and Applications, Volume 4 Issue 3

Publisher: ACM

Full text available: [pdf\(285.79 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 38, Citation Count: 7

Tree multicast is a well established concept in wired networks. Two versions, per-source tree multicast (e.g., DVMRP) and shared tree multicast (e.g., Core Based Tree), account for the majority of the wireline implementations. In this paper, we extend ...

18 Optimizing data aggregation for cluster-based internet services



Lingkun Chu, Hong Tang, Tao Yang, Kai Shen

June 2003 PPOPP '03: Proceedings of the ninth ACM SIGPLAN symposium on Principles and practice of parallel programming

Publisher: ACM

Full text available: [pdf\(275.38 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 78, Citation Count: 0

Large-scale cluster-based Internet services often host partitioned datasets to provide incremental scalability. The aggregation of results produced from multiple partitions is a fundamental building block for the delivery of these services. This paper ...

Keywords: cluster-based network services, fault tolerance, load-adaptive tree formation, response time, scalable data aggregation, throughput

19 [Optimizing data aggregation for cluster-based internet services](#)



Lingkun Chu, Hong Tang, Tao Yang, Kai Shen

October 2003 ACM SIGPLAN Notices, Volume 38 Issue 10

Publisher: ACM

Full text available: [pdf\(275.38 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 78, Citation Count: 0

Large-scale cluster-based Internet services often host partitioned datasets to provide incremental scalability. The aggregation of results produced from multiple partitions is a fundamental building block for the delivery of these services. This paper ...

Keywords: cluster-based network services, fault tolerance, load-adaptive tree formation, response time, scalable data aggregation, throughput

20 [Fast accurate computation of large-scale IP traffic matrices from link loads](#)



Yin Zhang, Matthew Roughan, Nick Duffield, Albert Greenberg

June 2003 ACM SIGMETRICS Performance Evaluation Review, Volume 31 Issue 1

Publisher: ACM

Full text available: [pdf\(594.08 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 103, Citation Count: 35

A matrix giving the traffic volumes between origin and destination in a network has tremendously potential utility for network capacity planning and management. Unfortunately, traffic matrices are generally unavailable in large operational IP networks. ...

Keywords: SNMP, traffic engineering, traffic matrix estimation

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